

Title of Invention: OPTICAL DISK, VIDEO RECORDER, AND PROGRAM STORAGE
MEDIUM

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[0159] Since the 1st timetable only records the address information and specific information of each video object unit for every fixed time, the table size thereof is small. Since the 2nd timetable does not need to be recorded the record positions (sector addresses) corresponding to the reproduction time for every video object unit but includes the reproduction time and its data size for every video object unit, it is all right that the reproduction time is a data length shorter than the data size, and the table size of the 2nd timetable is small. Furthermore, since the 2nd timetable is recorded on every video object unit based on the unit in which data is encoded, the effect is such that generating the 2nd timetable on real time at the time of picture recording is made very easy. Moreover, since time map information matches the reproduction time of a video object with an address by searching the 1st timetable and the 2nd timetable hierarchically, the effect is such that it is all right that the amount of memory holding the time map information is made small with a reproduction apparatus.

[0161] According to this configuration, even if the head portion of the video object is deleted by edit, a time map information can be easily corrected by changing the value of time offset.